

ABSTRACT OF THE DISCLOSURE

A negative electrode material for a non-aqueous electrolyte secondary battery of the present invention is a negative electrode material for a non-aqueous electrolyte secondary battery capable of reversibly absorbing and desorbing lithium, and it includes a solid phase A and a solid phase B that have different compositions and has a structure in which the surface around the solid phase A is entirely or partly covered by the solid phase B. The solid phase A contains at least one element selected from the group consisting of silicon, tin and zinc, and the solid phase B contains the above-described at least one element contained in the solid phase A, and at least one element selected from the group consisting of Group IIA elements, transition elements, Group IIB elements, Group IIIB elements and Group IVB elements. The atomic arrangement and structure (e.g., crystal structure or amorphous structure) of at least one solid phase selected from the group consisting of the solid phase A and the solid phase B are controlled. It is possible to provide a negative electrode material for a non-aqueous electrolyte secondary battery in which deterioration due to charge/discharge cycle characteristics is suppressed, by using such a material as a negative electrode material for a non-aqueous electrolyte secondary battery. It is also possible to provide a non-aqueous electrolyte secondary battery having excellent charge/discharge cycle characteristics, by including such a negative electrode material for a non-aqueous electrolyte secondary battery.